

Decentralized ebike-energy-to-grid platform DEEP

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Summary

Green power generation, storage and distribution will be composed of millions of small, decentralised power sources of producers and consumers, the prosumers. In such systems, it will be important to connect efficient batteries to secure and instantaneous, autonomous green energy transactions across prosumers as energy market conditions change. We aim to connect prosumers to a decentralized ebike energy-to-grid platform (DEEP) using blockchain technology. We introduce an integrated smart-testnet mini-grid connecting electric hubs to open-source energy blockchain platforms containing producers and consumers. We outline the bottlenecks, the improvements needed, and a roadmap for the future of coupling ebike networks to decentralized open-source computer and power networks.

Keywords: Green energy. Interconnected networks. ebike networks. Smart mini-grid. Computer networks. Power network. Blockchain.